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PATENT ABSTRACTS OF JAPAN(21) Application number: **06137183**(51) Intl. Cl.: **A46B 13/02 A61C 17/22**(22) Application date: **20.06.94**

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states:(71) Applicant: **SEIKOSHA CO LTD**(72) Inventor: **AMAKASU MIKIO**

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**(54) ELECTRIC
TOOTHBRUSH**

(57) Abstract:

PURPOSE: To select a brushing motion depending on the section of teeth by changing over the rotational direction of a drive motor for an electric tooth brush.

CONSTITUTION: A case 1 is internally provided with a drive motor 3 and a motion conversion device C. The rotation of the motor 3 is transmitted to a sleeve 6a via a motor pinion 5 and a bevel gear 6 on the operation of the device C. The rotation of the motor 3 is, then, converted to the reciprocating motion of the first drive shaft 11 via a ratchet gear 6b and a ratchet tooth, or of the second drive shaft 12 via a ratchet gear 6c and the ratchet tooth, according to a motor rotating direction. Also, a brush body 17 is jointed to the shaft 11, while an arm 14 to the shaft 12. Then, the pinion 18b of a rotary brush body 18 is made to gear with the rack 14a of the arm

14. As a result, a toothbrush 18a fitted to the rotary brush body 18 can be selected between the case of vertical and rotary reciprocating motion, and the case of only the rotary reciprocating motion.

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